

Assessment of the porous structure and surface chemistry of activated biocarbons used for Methylene Blue adsorption

Barbara Charmas ^{1,*}, Magdalena Zięzio ¹, and Katarzyna Jedynak ²

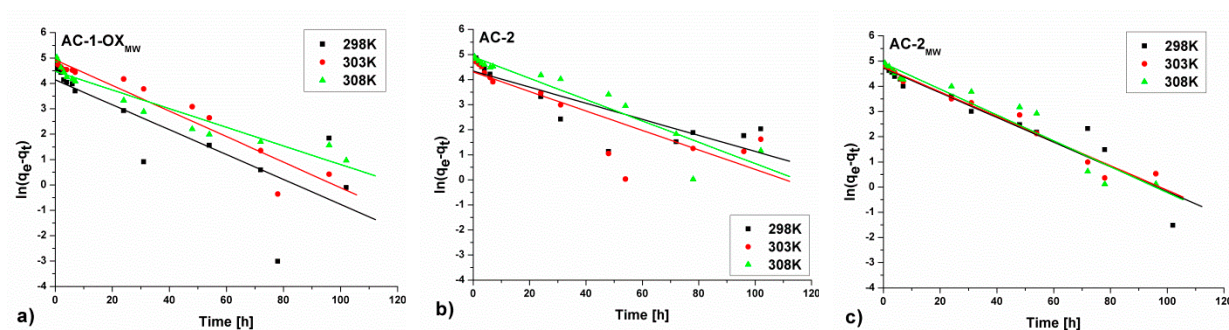


Figure S1. Pseudo-first order fitting model for the samples: (a) AC-1-OX_{MW}, (b) AC-2, (c) AC-2_{MW}.

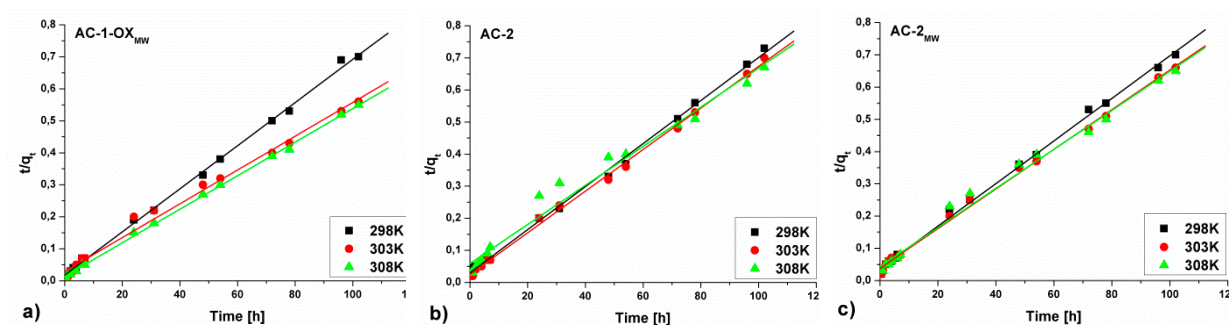


Figure S2. Pseudo-second order fitting model for the samples: (a) AC-1-OX_{MW}, (b) AC-2, (c) AC-2_{MW}.

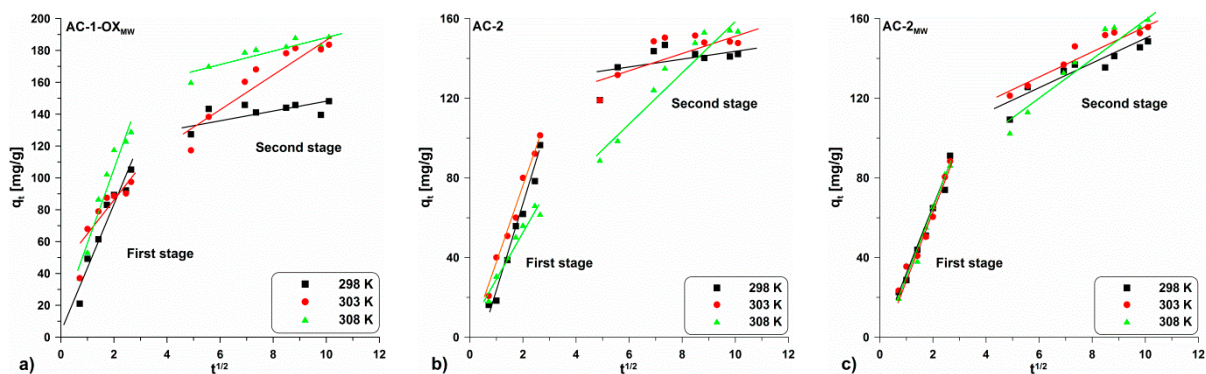


Figure S3. Intra-particle diffusion model for the samples: (a) AC-1-OX_{MW}, (b) AC-2, (c) AC-2_{MW}.

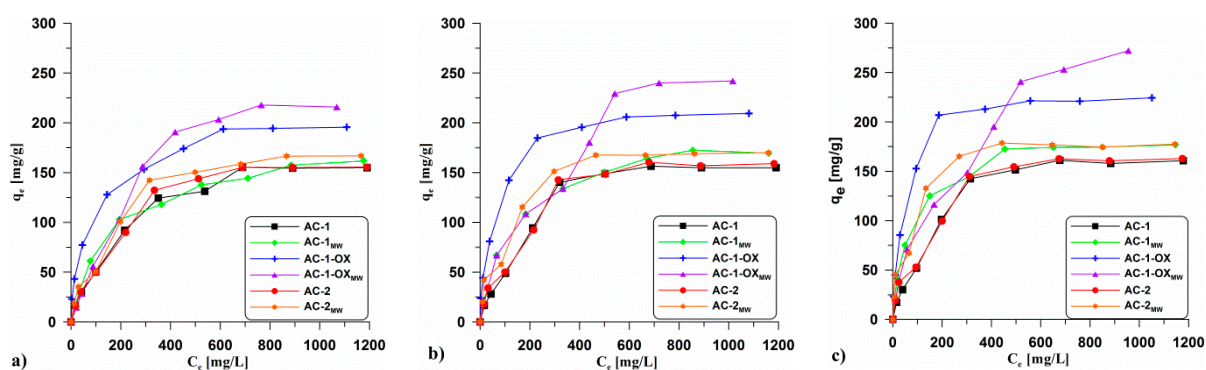
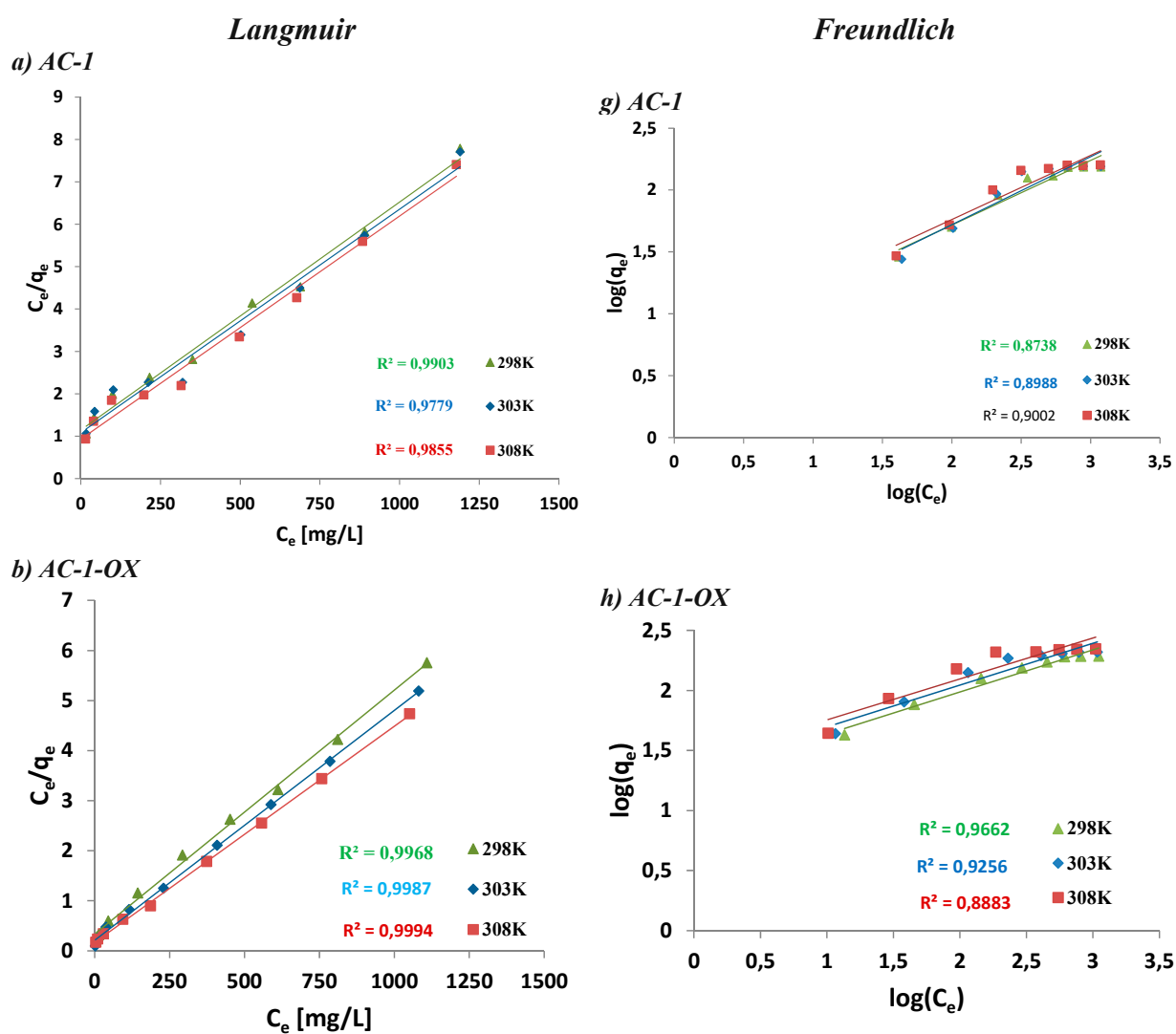
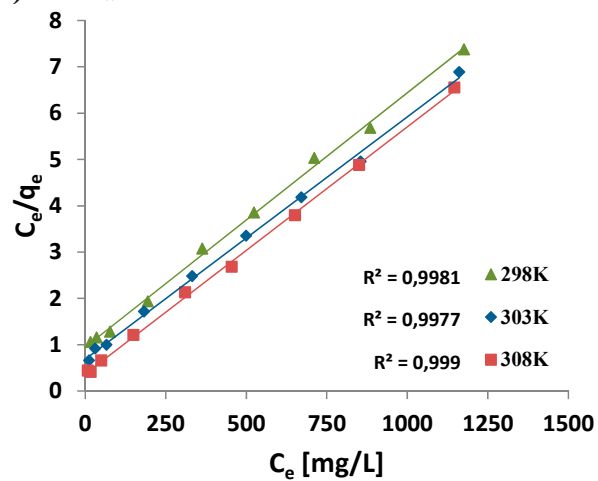


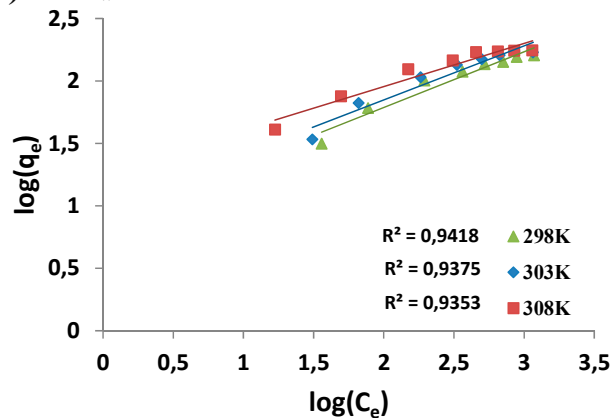
Figure S4. Experimental adsorption isotherms of MB on tested carbon materials at: (a) 289 K, (b) 303 K and (c) 308 K.



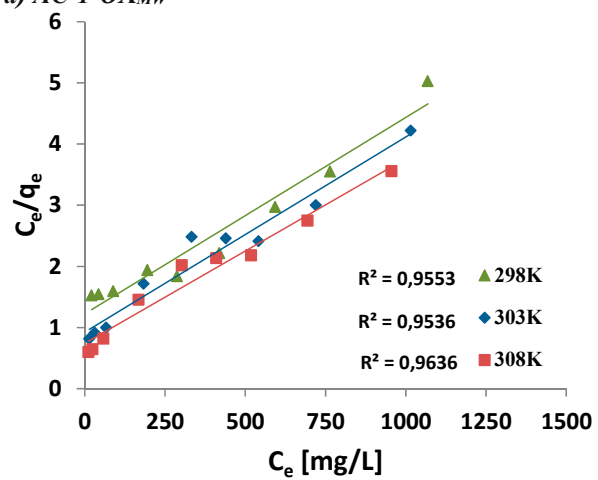
c) AC-1_{MW}



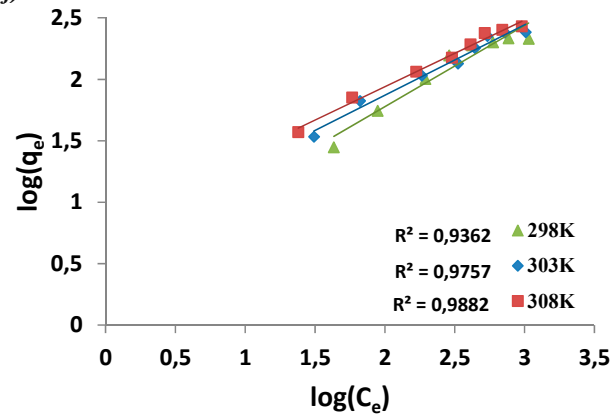
i) AC-1_{MW}



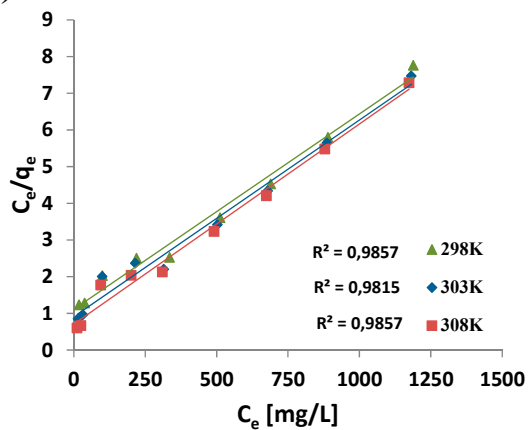
d) AC-1-*OX*_{MW}



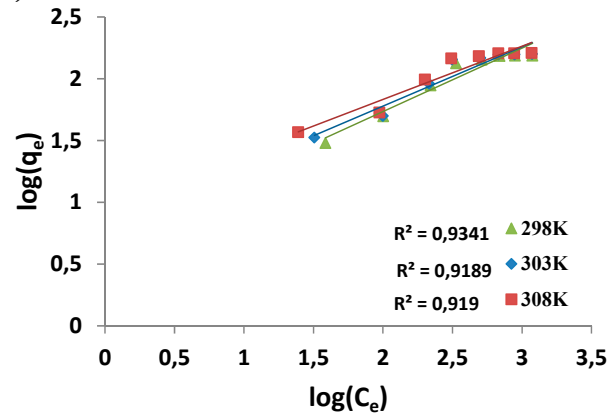
j) AC-1-*OX*_{MW}



e) AC-2



k) AC-2



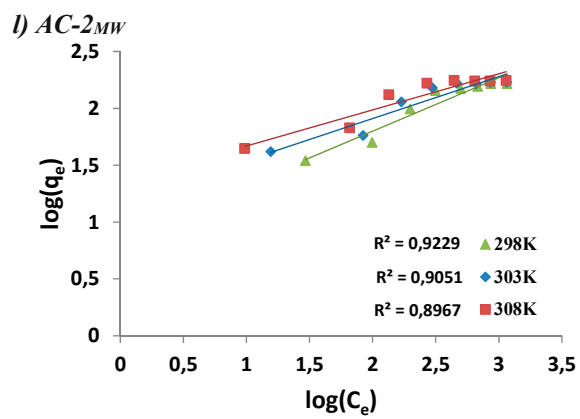
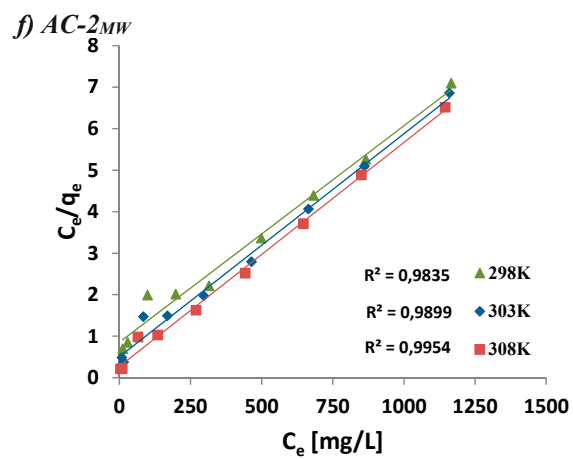


Figure S5. Linear fitting of adsorption isotherms according to Langmuir (a-f) and Freundlich (g-l) models.